



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY  
AND POLLUTION PREVENTION

February 21, 2017

Christina M. Swick, Agent  
ERCO Worldwide  
302 The East Mall, Suite 200  
Toronto, Ontario M9B 6C7  
CANADA

Subject: Label Amendment – To revise Container Handling Statements  
Product Name: Sodium Chlorite Solution 15  
EPA Registration Number: 53345-20  
Application Date: November 18, 2016  
Decision Number: 524140

Dear Ms. Swick:

The amended label referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act, as amended, is acceptable. This approval does not affect any conditions that were previously imposed on this registration. You continue to be subject to existing conditions on your registration and any deadlines connected with them.

A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling. You must submit one copy of the final printed labeling before you release the product for shipment with the new labeling. In accordance with 40 CFR 152.130(c), you may distribute or sell this product under the previously approved labeling for 18 months from the date of this letter. After 18 months, you may only distribute or sell this product if it bears this new revised labeling or subsequently approved labeling. "To distribute or sell" is defined under FIFRA section 2(gg) and its implementing regulation at 40 CFR 152.3.

Should you wish to add/retain a reference to the company's website on your label, then please be aware that the website becomes labeling under the Federal Insecticide Fungicide and Rodenticide Act and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) list examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA's Office of Enforcement and Compliance.

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Your release for shipment of the product constitutes acceptance of these conditions. If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6. If you have any questions, please contact Wanda Henson by phone at (703) 308-6345, or via email at [henson.wanda@epa.gov](mailto:henson.wanda@epa.gov)

Sincerely,

A handwritten signature in blue ink that reads "Wanda G. Fuller, for". The signature is written in a cursive style.

Demson Fuller, Product Manager 32  
Regulatory Management Branch II  
Antimicrobials Division (7510P)  
Office of Pesticide Programs

Enclosure

# SODIUM CHLORITE SOLUTION 15

**FOR USE IN GENERATING CHLORINE DIOXIDE TO CONTROL MICROORGANISMS IN POTABLE WATER, WASTE WATER, FOOD PROCESSING PLANT WATER, ONCE-THROUGH COOLING WATER SYSTEMS AND GENERAL INDUSTRIAL PROCESS WATER**

**ACTIVE INGREDIENT:**

Sodium Chlorite..... 15.0%  
Other Ingredients..... 85.0%  
TOTAL: 100.0%

**KEEP OUT OF REACH OF CHILDREN**

**DANGER**

EPA Reg. No.: 53345-20  
EPA Est. No.: 53345-CAN-001  
53345-CAN-004  
86565-LA-002

Net Contents: \_\_\_\_\_

**FIRST AID**

If in eyes:	<ul style="list-style-type: none"><li>Hold eye open and rinse slowly and gently with water for 15-20 minutes, then continue rinsing eye.</li><li>Remove contact lenses, if present, after the first five minutes then continue rinsing eye.</li><li>Call a poison control center or doctor for treatment advice.</li></ul>
If on Skin or Clothing:	<ul style="list-style-type: none"><li>Take off contaminated clothing.</li><li>Rinse skin immediately with plenty of water for 15-20 minutes.</li><li>Call a poison control center or doctor for treatment advice.</li></ul>
If Swallowed:	<ul style="list-style-type: none"><li>Call a poison control center or doctor immediately for treatment advice.</li><li>Have person sip a glass of water if able to swallow.</li><li>Do not induce vomiting unless told to do so by a poison control center or doctor.</li><li>Do not give anything by mouth to an unconscious person.</li></ul>
If Inhaled:	<ul style="list-style-type: none"><li>Move person to fresh air.</li><li>If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible.</li><li>Call a poison control center or doctor for further treatment advice.</li></ul>
<b>HOTLINE NUMBER</b> Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact the Poison Center at 1-800-222-1222 for emergency medical treatment information. <b>Note to Physician:</b> Probable mucosal damage may contraindicate the use of gastric lavage.	

**ACCEPTED**

02/21/2017

Under the Federal Insecticide, Fungicide and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No. 53345-20

Manufactured By ERCO Worldwide

302 The East Mall, Suite 200, Toronto, Ontario, Canada M9B 6C7

**PRECAUTIONARY STATEMENTS**

**HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

**DANGER.** Corrosive. Causes irreversible eye damage and skin burns. Do not get in eyes, on skin or on clothing. May be fatal if swallowed. Harmful if inhaled. Do not breathe vapors or spray mist. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove and wash contaminated clothing before reuse.

**Personal Protective Equipment (PPE):** Wear protective eyewear (goggles, face shield, or safety glasses). Wear coveralls worn over long-sleeved shirt and long pants, socks, chemical-resistant footwear, and chemical-resistant gloves (such as any waterproof material, selection category A). When mixing, loading, and cleaning equipment wear a chemical resistant apron. For overhead exposure, wear chemical resistant head gear.

**User Safety Requirements:** Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry. Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them.

**User Safety Instructions:** User must: (1) wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet; (2) remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing; and, (3) remove PPE immediately after handling this product. As soon as possible, wash thoroughly and change into clean clothing.

**ENVIRONMENTAL HAZARDS**

This pesticide is toxic to fish. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the EPA.

**PHYSICAL OR CHEMICAL HAZARDS**

Strong oxidizing agent. Only mix or dilute with water or non-oxidizable materials. Mixing with acids, or alcohol, or other chemicals may cause evolution of chlorine and chlorine dioxide gas mixture which is toxic and may be explosive. Combustible materials contaminated with Sodium Chlorite Solution 15 may burn rapidly. Keep handling areas and equipment clean and free of oils, greases, combustibles and dust. Do not contaminate product with garbage, dirt, organic matter, paint products, solvents, acids, vinegar, beverages, oils, pine oils, dirty rags, or other foreign matter. Do not expose to hot surfaces, sparks or open flame.

**DIRECTIONS FOR USE**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

**METHOD OF APPLICATION**

Chlorine dioxide generation must take place only under controlled conditions in a chlorine dioxide generator. These generators react Sodium Chlorite Solution 15 with either chlorine or a chlorine solution and hydrochloric acid producing an aqueous solution of chlorine dioxide. The chlorine dioxide solution is then added at a point in the system to be treated which ensures uniform mixing. Do not apply Sodium Chlorite Solution 15 directly to the system being treated. Follow all instructions in the chlorine dioxide generator manual carefully.

**APPLICATIONS**

**POTABLE WATER AND WASTEWATER DISINFECTION:** For most municipal systems, a chlorine dioxide concentration up to 2.0 ppm is sufficient to provide adequate disinfection. The concentration of total residual oxidants (chlorine dioxide, chlorite and chlorate) must be monitored such that it does not exceed 1.0 ppm in the distribution system. For wastewater and sewage applications, residual chlorine dioxide concentrations up to 5.0 ppm are generally adequate.

**FOOD PROCESSING PLANTS, DAIRIES, BOTTLING PLANTS AND BREWERIES AND FOOD PLANT PROCESS**

**WATER:** For microbial control in food processing water systems (flume transport, chill water systems, hydrocoolers and retort cooling water) apply Sodium Chlorite Solution 15 through a chlorine dioxide generation system to achieve a chlorine dioxide residual concentration ranging from 0.25 to 5.0 ppm.

Chlorine dioxide generated from Sodium Chlorite Solution 15 may also be used as a water sanitizer for fruit and vegetable washing and cut and peeled potato products without a subsequent potable water rinse requirement, provided that the concentration of total residual oxidants meet the residual limitations of  $\leq 1.0$  ppm.

Residual concentrations up to 5.0 ppm chlorine dioxide in process water may be used for washing whole uncut and unpeeled fruits and vegetables although a final potable water rinse is required if the residual exceeds 1 ppm.

Potatoes, including those which have been peeled or cut, may be treated with sufficient chlorine dioxide to produce a residual concentration of up to 5.0 ppm provided this is followed by a potable water rinse.

**POULTRY PROCESSING WATER:** Use Sodium Chlorite Solution 15 to generate chlorine dioxide for use as an antimicrobial agent in water used in poultry processing in an amount not to exceed 3 ppm residual chlorine dioxide as determined by an appropriate method.

**AQUEOUS DISINFECTION SYSTEMS FOR CIP CLEANING:** Use Sodium Chlorite Solution 15 to generate a chlorine dioxide solution for sanitizing food processing equipment using a cleaning-in-place (CIP) system. If the concentration of chlorine dioxide generated from Sodium Chlorite Solution 15 exceeds 5.0 ppm, a potable water rinse must follow treatment. Care must be taken to ensure the biological and chemical quality of the potable water.

**GENERAL INDUSTRIAL PROCESS WATER TREATMENT (OILFIELD INJECTION WATER, WHITE WATER PAPER MILL SYSTEMS, AND RECIRCULATING COOLING TOWERS)** For control of microbial slime, these systems will require a chlorine dioxide residual concentration ranging between 0.25 and 5.0 ppm. Badly fouled systems must be cleaned before treatment.

**ONCE-THROUGH COOLING WATER SYSTEMS** Control of mollusks can be effectively accomplished using Sodium Chlorite Solution 15 as directed in commercial and industrial once-through cooling water systems. Sodium Chlorite Solution 15 may be fed on a continuous or slug basis depending on the degree of system fouling. Badly fouled systems must be cleaned before treatment.

SLUG DOSE: Add 42 lbs. of chlorine dioxide per million gallons of water (5 ppm).

CONTINUOUS DOSE: Add 2 to 16 lbs. of chlorine dioxide per million gallons of water (0.25 to 2 ppm).

## STORAGE AND DISPOSAL

DO NOT CONTAMINATE WATER, FOOD OR FEED BY STORAGE OR DISPOSAL.

### ***Pesticide Storage:***

Avoid exposure to high temperatures during storage. Store remote from other chemicals and combustible materials. Do not skid or slide drums.

### ***Pesticide Disposal:***

Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance.

### ***Container Handling:***

***Tank trucks and Railcars:*** Return for reuse. All valves must be closed tight and closures or caps secured.

***Containers equal to or less than 5 gallons:*** Nonrefillable container. Do not reuse or refill this container.

Triple rinse (or equivalent) promptly after emptying. Triple rinse as follows: Triple rinse as follows: Fill container 1/4 full with water and recap. Shake for 10 seconds. Drain for 10 seconds after the flow begins to drip. Follow Pesticide Disposal instructions for rinsate disposal. Repeat procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

***Containers over 5 gallons:*** Nonrefillable container. Do not reuse or refill this container. Triple rinse (or equivalent) promptly after emptying. Triple rinse as follows: Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Follow Pesticide Disposal instructions for rinsate disposal. Repeat this procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

**MADE IN CANADA**